

DIGITAL CAMERA		PowerShot G16
IMAGE SENSOR		
Type	1/1.7 type back-illuminated CMOS	
Effective Pixels	Approx. 12.1M	
Colour Filter Type	Primary Colour	
IMAGE PROCESSOR		
Type	DIGIC 6 with iSAPS technology	
LENS		
Focal Length	6.1 – 30.5 mm (35 mm equivalent: 28 – 140 mm)	
Zoom	Optical 5x ZoomPlus 10x Digital Approx. 4x (with Digital Tele-Converter Approx. 1.5x or 2.0x and Safety Zoom [1]). Combined Approx. 20x	
Maximum f/number	f/1.8-f/2.8	
Construction	11 elements in 9 groups (1 single sided aspherical lens, 1 UD lens and 2 double-sided aspherical lenses)	
Image Stabilisation	Yes (lens shift-type), approx. 3-stop [13]. Intelligent IS with 5-axis Enhanced Dynamic IS	
FOCUSING		
Type	TTL	
AF System/ Points	AiAF (9-point or Face Detection with Face Select and Track), 1-point AF (any position is available or fixed centre)	
AF Modes	Single, Continuous, Servo AF/AE[6], Tracking AF	
AF Point Selection	Size (Normal, Small)	
AF Lock	On/Off Selectable	
AF Assist Beam	Yes	
Manual Focus	Yes, plus MF Peaking	
Focus Bracketing	Yes	
Closest Focusing Distance	1 cm (W) from front of lens in macro	
EXPOSURE CONTROL		
Metering modes	Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (centre or linked to Face Detection AF or FlexiZone AF frame)	
AE Lock	Yes	
Exposure Compensation	+/- 3 EV in 1/3 stop increments Manual and automatic dynamic range correction Automatic shadow correction ND Filter (3 stop)	
AEB	1/3 – 2 EV in 1/3 stop increments	
ISO sensitivity	AUTO, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12800	
SHUTTER		
Speed	1 – 1/4000 sec. (factory default) 250 – 1/4000 sec. (total range – varies by shooting mode)	
WHITE BALANCE		
Type	TTL	
Settings	Auto (including Face Detection WB), Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom 1, Custom 2 Multi-area WB correction available in Smart Auto White Balance Compensation White Balance Compensation in Underwater mode	
COLOUR MATRIX		
Type	sRGB	
VIEWFINDER		
Viewfinder	Real-image zoom, optical viewfinder	
Dioptrre Correction	Yes	
LCD MONITOR		
Monitor	7.5 cm (3.0”) PureColor II G LCD (TFT). Approx. 922,000 dots	
Coverage	Approx. 100%	
Brightness	Adjustable to one of five levels. Quick-bright LCD	

FLASH		
Modes		Auto, Manual Flash On / Off, Slow Synchro
Slow Sync Speed		Yes. Fastest speed: 1/2000 sec. (built-in flash) 1/250 sec. (external flash) 1/4000 sec. (external using high-speed synchro)
Red-Eye Reduction		Yes
Flash Exposure Compensation		+/- 2 EV in 1/3 stop increments. Face Detection FE, Safety FE, Smart Flash Exposure
Flash Exposure Lock		Yes
Manual Power Adjustment		3 levels with internal flash (up to 19 levels with external EX Speedlites 270EX II and 430EX II. 22 levels with 580EX II, 600EX and 600EX-RT [2])
Second Curtain Synchronisation		Yes
Built-in Flash Range		50 cm – 5.0 m (W) / 50 cm – 4.5 m (T)
External Flash		E-TTL with EX series Speedlites [2], Macro Twin Lite MT-24EX, Macro Ring Lite MR-14EX, Canon High Power Flash HF-DC1 and HF-DC2
SHOOTING		
Modes		Smart Auto (58 scenes detected), Hybrid Auto, Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom 1, Custom 2, SCN (Portrait, Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Timer), Star (Star Nightscape, Star Trails, Star Time-Lapse Movie), Handheld Night Scene, Underwater, Snow, Fireworks), Creative Filters (High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Monochrome, Super Vivid, Poster Effect), Movie
Modes in Movie		Smart Auto (21 scenes detected), Standard, Program AE, Portrait, Nostalgic, Miniature Effect, Monochrome, Super Vivid, Poster Effect, Underwater, Snow, Fireworks, Super Slow Motion Movie
Photo Effects		My Colors (My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color)
Drive modes		Single, Auto Drive, Continuous, Continuous with AF, Self-Timer
Continuous Shooting		Approx. 12.2 shots/sec for up to 5 frames then approx. 9.3 shots/sec for 522 frames [12] with AF: Approx. 5.7 shots/sec [3][4] with Live View: Approx. 5.9 shots/sec [3][4]
RECORDING PIXELS / COMPRESSION		
Image Size		4:3 - (RAW, L) 4000 x 3000, (M1) 2816 x 2112, (M2) 1600 x 1200, (S) 640 x 480 16:9 - (RAW, L) 4000 x 2248, (M1) 2816 x 1584, (M2) 1920 x 1080, (S) 640 x 360 3:2 - (RAW, L) 4000 x 2664, (M1) 2816 x 1880, (M2) 1600 x 1064, (S) 640 x 424 1:1 - (RAW, L) 2992 x 2992, (M1) 2112 x 2112, (M2) 1200 x 1200, (S) 480 x 480 4:5 - (RAW, L) 2400 x 3000, (M1) 1696 x 2112, (M2) 960 x 1200, (S) 384 x 480 Resize in playback (M2, S)
Compression Movies		RAW, Superfine, Fine (Full HD) 1920 x 1080, 60fps/30fps (HD) 1280 x 720, 30fps, (L) 640 x 480, 30fps Star Time-Lapse Movie (Full HD) 15fps Super Slow Motion Movie (L) 640 x 480, 120fps, (M) 320 x 240, 240fps Miniature Effect (HD, L) 6fps, 3fps, 1.5fps Hybrid Auto (HD)
Movie Length		(Full HD & HD) Up to 4 GB or 29 min. 59 sec. [7] (L and M) Up to 4 GB or 1 hour [4] (Super Slow Motion Movie) 30 sec. (Star Time-Lapse Movie) 8/6/4 sec

FILE TYPES		
Still Image Type		JPEG compression (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system and DPOF ver. 1.1 compliant), RAW, RAW+JPEG
Movies		MP4 [Video: MPEG4-AVC (H.264), Audio: MPEG2 AAC-LC (stereo)]
DIRECT PRINT		
Canon Printers		Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge
PictBridge		Yes (via USB or Wireless LAN)
OTHER FEATURES		
GPS		GPS via mobile (linked to compatible smartphone)
Red-Eye Correction		Yes, during shooting and playback
My Category		Image tagging feature
Intelligent Orientation Sensor		Yes
Histogram		Yes, live histogram
Playback zoom		Approx. 2x – 10x
Self Timer		Approx. 2 or 10 sec., Custom
Menu Languages		English, German, French, Dutch, Danish, Finnish, Italian, Greek, Norwegian, Portuguese, Russian, Swedish, Spanish, Ukrainian, Polish, Czech, Hungarian, Turkish, Simplified Chinese, Chinese (traditional), Japanese, Korean, Thai, Arabic, Romanian, Farsi, Hindi, Malay, Indonesian, Vietnamese
INTERFACE		
Computer		Hi-Speed USB (MTP, PTP) dedicated connector (Mini-B compatible)
Other		HDMI Mini Connector (HDMI-CEC compatible) A/V output (PAL/NTSC)
Computer/Other		Wi-Fi (IEEE802.11b/g/n), (2.4 GHz only) [11]
MEMORY CARD		
Type		SD, SDHC, SDXC (UHS Speed Class 1 compatible)
SUPPORTED OPERATING SYSTEM		
PC & Macintosh		Windows 8/7 SP1/ Vista SP2/ XP SP3 Mac OS X v10.6 – 10.8
		For Wireless LAN connection to a PC: Windows 8/7 SP1 Mac OS X v10.6.8/10.7/10.8.2 or later
SOFTWARE		
Browsing & Printing		ImageBrowser EX
Other		Map Utility
Image Manipulation		Digital Photo Professional for RAW development
POWER SOURCE		
Batteries		Rechargeable Li-ion Battery NB-10L (NB-10L battery and charger supplied)
Battery life		Approx. 360 shots Eco mode approx. 480 shots Approx. 420 min. playback
A/C Power Supply		Optional, AC Adapter Kit ACK-DC80

ACCESSORIES		
Cases / Straps	Soft Case DCC-1620, SC-DC85 Travel Case DCC-2500	
Waterproof / Weatherproof Case	Waterproof Case (40m) WP-DC52, Waterproof Case Weight WW-DC1	
Lenses	Tele-converter 1.4x TC-DC58E Conversion Lens Adapter LA-DC58L Filter Adapter FA-DC58D (Compatible with Canon 58mm Filters: Circular Polarizing Filter PL-C (B), Neutral Density Filters ND4-L & ND8-L, Protect Filter, UV Filter, Skylight Filter, Softmat Filter No.1 & 2)	
Flash	Canon Speedlites (including 270EX II, 320EX, 430EX II, 580EX II, 600EX, 600EX-RT [2]), Macro Twin Lite MT-24EX, Macro Ring Lite MR-14EX (Both require Conversion Lens Adapter LA-DC58L), Speedlite Transmitter ST-E2, Off-Camera Shoe Cord OC-E3, Bracket BKT-DC1, Speedlite Bracket SB-E2	
Remote Controller/ Switch	Remote Switch RS-60E3	
Power Supply & Battery Chargers	AC Adapter Kit ACK-DC80, Battery Charger CB-2LCE	
Other	Canon HDMI Cable HTC-100, interface cable IFC-400PCU	
PHYSICAL SPECIFICATIONS		
Operating Environment	0 – 40 °C, 10 – 90% humidity	
Dimensions (WxHxD)	108.8 x 75.9 x 40.3 mm	
Weight	Approx. 356 g (including battery/batteries and memory card)	

All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated. Subject to change without notice.

[1] Depending on the image size selected.

[2] Not all functions of the flash are supported.

[3] Under conditions where the flash does not fire.

[4] Depending on memory card speed / capacity / compression setting.

[6] Some settings limit availability.

[7] The following Speed Class memory cards are required for maximum record time: (HD) 1280 x 720 Speed Class 4 or above. (Full HD) 1920 x 1080 Speed Class 6 or above. (iFrame) 1280 x 720 Speed Class 6 or above.

[11] Wi-Fi use may be restricted in certain countries or regions. Wi-Fi support varies by device and region. For more information visit www.canon-europe.com/wirelesscompacts

[12] Sustained continuous shooting function requires compatible SDHC/SDXC UHS Speed Class 1 memory card, total number of frames captured varies depending on shooting subject.

[13] Values at maximum optical focal length. Cameras whose focal length exceeds 350mm (35mm equivalent) are measured at 350mm.